DOCUMENT RESUME

ED 077 704 SE 016 154

TITLE	Energy/Environment/Economy. An Annotated Bibliography of Selected U.S. Government Publications Concerning United States Energy Policy.
INSTITUTION	ENVIRO/INFO, Green Bay, Wis.
PUB DATE	Apr 73
NOTE	24p.
AVAILABLE FROM	ENVIRO/INFO, P. O. Box 115, Green Bay, Wisconsin 54305 ($2.00)
EDRS PRICE	MF-$0.65 HC-$3.29
DESCRIPTORS	*Annotated Bibliographies; *Economics; *Energy; *Environment; Federal Government; *Government Publications; Indexes (Locaters); Policy; Reference Materials

ABSTRACT

This annotated bibliography attempts to provide a selective listing of 109 U.S. federal government publications germane to the energy crisis and its attendant environmental and economic implications. Primary emphasis is placed upon documents presenting energy policy issues which have emerged, plus statistical reportage which provides quantitative substantiation. Documents of a technical nature are generally avoided, although sections of some items include such material. Information for each entry includes title of the publication, source, date, pages, Superintendent of Documents number or National Technical Information Service number, price, and annotation. Items found in federal depository libraries are so noted. Most of the items listed were issued during the period 1970 through the first quarter of 1973, with a few exceptions. (BL)

ED 077704

U.S. DEPARTMENT OF HEALTH
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

ENERGY/ENVIRONMENT/ECONOMY

AN ANNOTATED BIBLIOGRAPHY OF SELECTED U.S. GOVERNMENT PUBLICATIONS CONCERNING UNITED STATES ENERGY POLICY

ENVIRO/INFO
GREEN BAY, WISCONSIN

APRIL 1973

SE 016 154

FILMED FROM BEST AVAILABLE COPY

INTRODUCTION

This bibliography attempts to provide a selective listing of 109 U.S. federal government publications germane to the "energy crisis" and its attendant environmental and economic implications. Primary emphasis is placed upon documents presenting energy policy issues which have emerged, plus statistical reportage which provides quantitative substantiation. Documents of a technical nature are generally avoided, although sections of some items include such material.

Most listed items were issued during the period 1970 through the first quarter of 1973, with a few exceptions. This list intends to complement the more exhaustive bibliographies appearing as items 42, 43, 60, 72, and 88, which lack the annotations and/or selectivity provided herein. Half the titles bear congressional imprints, particularly that of the Senate Committee on Interior and Insular Affairs, reflecting the concern of Congress in this area.

OF SPECIAL INTEREST ARE ITEMS 17, 27, 35, 56, 59, AND 68.

Availability of documents varies. Those listed as depository items may be found in federal depository libraries. For items 1 through 97, priced items may be ordered from the Superintendent of Documents, Wash., D.C. 20402, while unpriced items must be requested directly from the issuing agency. Senate documents orders go to the issuing committee, U.S. Capitol, Wash., D.C. 20510, and House documents follow suit, only to zip code 20515. Items 98 through 109, all priced, are available from National Technical Information Service, Springfield, Va. 22151.

It may be interesting to note that three years ago this month Senator Gaylord Nelson of Wisconsin founded Earth Day, later to become Earth Week. It is apparent that public environmental awareness has increased manyfold since then. It is the purpose of this publication to help continue this trend in awareness.

1. Tennessee Valley Authority.
ANNUAL REPORT. 1934-
Sudocs no. Y3.T25:1 (depository item)
Most recent: 1971, 2 vols. Y3.T25:1/971/v.1+2. 45¢ 60¢.
Submitted to the President and Congress to cover the current fiscal year. Features a special section on electric power production. Highly factual. Vol.2 contains appendices, including financial statements, statistical tables, and text of power contracts entered into during the fiscal year.

2. U.S. Atomic Energy Commission.
FORECAST OF GROWTH OF NUCLEAR POWER. 1971. 187p.
Sudocs no. Y3.At7:22/WASH 1139. (depository item). $1.50.
In this forecast, "the method used is extrapolation of data on nuclear and conventional power plans installed after 1959, currently being constructed, or definitely planned for future construction in various areas of the United States and in foreign countries of the Free World. After projecting the growth of nuclear power, estimates are made of requirements for nuclear fuel based on data and assumptions about the design and operating characteristics of nuclear power plants." Provides national and regional forecast for the U.S., national forecasts for other countries.

3. U.S. Atomic Energy Commission.
THE GROWTH OF NUCLEAR POWER. 1971. 18p.
Sudocs no. Y3.At7:22/WASH 1139 (Rev.1). Depository item). 30¢.
Updates FORECAST OF GROWTH OF NUCLEAR POWER (above).

4. U.S. Atomic Energy Commission.
POTENTIAL NUCLEAR POWER GROWTH PATTERNS. 1970. 271p.
Sudocs no. Y3.At7:22/WASH 1098. (depository item). $2.00.
"Concerns the development and application of the model of the U.S. electrical power economy." Suggests that "the promise that nuclear energy will provide an essentially unlimited source of low cost power will depend to a large degree on the effective action to be taken over the next several years. This action must entail a major sustained commitment of managerial and financial resources of the Government; private industry and the utilities to ensure the overall success of the reactor development programs."

5. U.S. Atomic Energy Commission.
THERMAL EFFECTS AND U.S. NUCLEAR POWER STATIONS. 1971. 69p.
Sudocs no. Y3.At7:22/WASH 1169. (depository item). 70¢.
"An attempt to present the problems being faced by utilities and federal and state agencies concerned with the thermal effects associated with the production of electric power. Many of the engineering, ecological and regulatory aspects of these problems are discussed in some detail. Conclusions were drawn concerning our present state of knowledge of the effects of the discharge of waste heat upon aquatic life, water quality standards and their effects, present environmental monitoring programs and future research needs. . . with recommendations for future actions."

6. U.S. Bureau of the Census.
ANNUAL SURVEY OF MANUFACTURES, 1970; FUELS AND ELECTRIC ENERGY USED, BY INDUSTRY GROUPS. 1972. 6p.
Sudocs no. C56.221:M70(AS)-4. (depository item). 25¢.
"Presents estimates of the total cost of fuels, quantity and cost of electric energy purchased for use, and quantity of electric energy generated and used in manufacturing plants. . . . Based upon reports from a representative sampling of about 65,000 manufacturing establishments."

7. U.S. Bureau of the Census.
1967 CENSUS OF MANUFACTURES, SPECIAL REPORT: FUELS AND ELECTRIC ENERGY CONSUMED. 1971. 31p.
Sudocs no. C3.24/15:967/4. (depository item). 40¢.
"Presents 1967 statistics on the quantity and cost of specified fuels; quantity and cost of electric energy purchased; and quantity of electric energy generated less quantity sold by manufacturing plants. Summary U.S. totals are shown for 1967 and prior years."

8. U.S. Bureau of the Census.
1967 CENSUS OF MINERAL INDUSTRIES. INDUSTRY SERIES.
Sudocs no. C3.216:967/nos.: (depository items).
11A Anthracite mining. 1970. 18p. 40¢.
12A Bituminous coal and lignite mining. 1970. 44p. 65¢.
13A Crude petroleum and natural gas. 1970. 75p. $1.00.
13B Natural gas liquids. 1970. 21p. 40¢.
13C Oil and gas field services. 1970. 64p. $1.00.

9. U.S. Bureau of Land Management.
PUBLIC LAND STATISTICS. 1962- . annual.
Sudocs no. I53.1/2: (depository item).
Most recent: 1971, 188p. 1972. I53.1/2:971. 75¢.
Financial and statistical summaries of the Bureau's operations. Includes special sections on minerals leased or sold and locatable minerals.

10. U.S. Bureau of Mines.
BUREAU OF MINES ENERGY PROGRAM. annual.
Sudocs no. I28.27: (depository item).
Most recent: 1971, 102p. 1972. I28.27:8551.
An annual review, focusing on coal, petroleum, natural gas, and oil shale, as related to the Bureau's research program. Discusses advances, trends, provides progress reports. A good summary of current developments. Bibliography.

11. U.S. Bureau of Mines.
ENERGY POTENTIAL FROM ORGANIC WASTES: A REVIEW OF THE QUANTITIES AND SOURCES. 1972. 16p. (Information circular 8549).
Sudocs no. I28.27:8549. (depository item). 30¢.
Notes that "enormous quantities of organic wastes are produced each year in the United States. The total amount is in excesss of 2 billion tons. . . . This report itemizes and evaluates for the first time in detail the quantities and sources of moisture- and ash-free organic material contained in manure, urban refuse, industrial wastes, sewage solids, and agricultural wastes in the United States. . . The potential for fuel, either oil or gas . . . is also estimated." Bibliography.

12. U.S. Bureau of Mines.
MINERAL FACTS AND PROBLEMS. 4th ed., 1970. 1291p.
Sudocs no. I28.3:650. (depository item). $10.75.
"The standard reference work with respect to mineral commodities . . . Short introductory statements at the beginning of each group of related commodity chapters identify the major trends within commodity groups and discuss the significance of such trends." Includes "outlook sections" in each chapter. Section on "Energy Resources," pp. 13-242.

13. U.S. Bureau of Mines.
MINERALS YEARBOOK. 1932- . annual.
v.1: Metals, Minerals, and Fuels.
Sudocs no. I28.37: (depository item).
Most recent: 1970, 1235p., 1972. I28.37:970/v.1. $6.00.
"A statistical record on global mineral industry performance during the year of review." Individual chapters on coal, natural gas, petroleum, uranium, etc. An invaluable annual statistical summary.

14. U.S. Bureau of Mines.
NATURAL GAS LIQUIDS: A REVIEW OF THEIR ROLE IN THE PETROLEUM INDUSTRY. 1970. 22p. (Information circular 8441).
Sudocs no. I28.27:8441. (depository item). 35¢.
"Information for the nonspecialist about natural gas liquids recovery from hydrocarbon streams in natural gas processing plants. Attention is directed to the impact of the technology of processing and the quality of gas processed in view of the increased availability of natural gas for processing."

15. U.S. Bureau of Mines.
STATISTICAL SERIES. (MIS= Mineral Industries Surveys).

I28.17	Petroleum refineries in the U.S. (MIS). annual.
I28.18	Petroleum refinery statistics. monthly.
I28.18/2	Petroleum statement (MIS). monthly.
I28.18/3	Petroleum products survey (MIS). annual and semi-annual series.
I28.18/4	Annual petroleum statement (MIS).
I28.19	Output of refineries in the United States. monthly.
I28.20	Stocks in hand at refineries. monthly.
I28.21	Stocks in hand at refineries. annual.
I28.22	Recent articles on petroleum and allied substances. monthly.
I28.33	Weekly coal report (MIS).
I28.33/2	Bituminous coal and lignite distribution (MIS). quarterly.
I28.33/3	Coal chronicle. irregular.
I28.41	Petroleum forecast (MIS). monthly.
I28.42	International coal trade. monthly.
I28.43/3	International petroleum annual.
I28.45	Crude petroleum reports by refineries.
I28.45/2	Crude-oil and refined-products pipeline mileage in the U.S. (MIS).
I28.29/2	Pennsylvania anthracite (MIS). weekly.
I28.91	World petroleum statistics. monthly.
I28.98	Natural gas (MIS) quarterly.
I28.98/4	Natural gas in (year) (MIS). annual.

16. U.S. Bureau of Mines.
SUPPLY AND DEMAND FOR ENERGY IN THE UNITED STATES BY STATES AND REGIONS, 1960 AND 1965; INTEGRATED ENERGY BALANCES AND ENERGY FLOWS. 1970. 546p. (Information circular 8434).
Sudocs no. I28.27:8434. (depository item). $5.00.
Constructs an energy model at the state and regional levels, which supplements Minerals Yearbook information. In four parts, viz., coal, utility electricity, natural gas, and petroleum and natural gas liquids. A detailed tabular presentation.

17. U.S. Congress. 92d. House. Comm. on Interior and Insular Affairs.
ENERGY "DEMAND" STUDIES: AN ANALYSIS AND APPRAISAL. 1972. 71p. (Committee print).
Sudocs no. Y4.In8/14:En2.
Examines "thirty-five recent energy demand studies . . . representative of most of the major efforts to forecast energy demand which have been made in the last decade." Notes that the "forecasts of most so-called energy demand studies are basically just extrapolation of historical trends in energy consumption," and that this methodology is open to criticism. Concludes that most of the forecasts are "of limited usefulness," in spite of the fact that they represent the best available. An excellent, highly thought-provoking study.
See also U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs, SURVEY OF ENERGY CONSUMPTION PROJECTIONS.

18. U.S. Congress. 92d. House. Comm. on Interior and Insular Affairs.
FUEL AND ENERGY RESOURCES, 1972; hearings. 1972. 2 vols. 944p. (Serial no. 92-42).
Sudocs no. Y4.In8/14:92-42/pts.1+2. (depository item). $1.75+2.00.
Purpose of hearings focuses on "finding out what our present resources are and what the demands on these resources are likely to be over the short-term period," and on "defining the relationships between energy and environment, foreign policy, the economy, consumer interests and other areas." An impressive compilation of testimony and accompanying documentation. Index to tables.

19. U.S. Congress. 92d. House. Comm. on Interior and Insular Affairs.
SELECTED READINGS ON THE FUELS AND ENERGY CRISIS. 1972. 473p. (Committee print).
A collection of 77 articles, primarily from journals and newspapers, which explore most aspects of the situation from a variety of viewpoints. Of special interest is the reprinting of the Interior Department's monograph, UNITED STATES ENERGY: A SUMMARY REVIEW. Bibliography and index included.

20. U.S. Congress. 91st. House. Comm. on Interstate and Foreign Commerce.
Subcomm. on Communications and Power.
ELECTRIC POWER RELIABILITY--1969-70; hearings . . . on H.R. 7186, H.R. 12585, H.R. 489, H.R. 9429, and H.R. 2506, bills to secure bulk power supplies adequate to satisfy the mounting demands of the people of the United States, consistent with environmental protection. 2 parts. 1971. 1035p.
Sudocs nos.: Part 1: Y4.In8/4:91-94 (depository items)
Part 2: Y4.In8/4:91-95
Abundant testimony, with abundant graphic and tabular substantiation.

21. U.S. Congress. 92d. House. Comm. on Interstate and Foreign Commerce. Subcomm. on Communications and Power.
POWERPLANT SITING AND ENVIRONMENTAL CONTROL; hearings on H.R. 5277, H.R. 6970, H.R. 6971, H.R. 6972, H.R. 3838, H.R. 7045, H.R. 1079, and H.R. 1486. 3 parts. 1971. 1194p.
Sudocs nos.: Part 1: Y4.In8/4:92-31. (depository item). $1.50.
Part 2: Y4.In8/4:92-32. " $2.00.
Part 3: Y4.In8/4:92-33. " $1.75.
Notes that "legislation on power reliability, powerplant siting, and environmental protection is long overdue." Seeks to find a middle road between those "who are seeking to supply power without adequate regard to environmental protection, or who are seeking environmental protection without regard to adequate energy resources." Includes texts of the bills introduced. Very substantial testimony. Limited graphic and tabular material.

22. U.S. Congress. 92d. House. Comm. on Public Works. Subcomm. on Flood Control and Internal Development.
RELATIONSHIP OF ENERGY AND FUEL SHORTAGES TO THE NATION'S INTERNAL DEVELOPMENT; hearings. 1972. 1128p.
Sudocs no. Y4.P96/11:92-46. (depository item).
Focuses on the reported energy crisis, with an eye to inquiring thoroughly into the adequacy of energy resources. A great deal of information is contained in the many statements and articles which are included. Graphic and tabular presentations.

23. Ibid., interim report. 1972. 36p. (Committee print 92-52).
Sudocs no. Y4.P96/11:92-52.
Deals with basic energy status of each fuel type. Concludes that "our country's fuel and energy shortages are grave" and could be "critical." Some graphic presentations.

24. U.S. Congress. 92d. House. Comm. on Science and Astronautics.
SOLAR ENERGY RESEARCH; A MULTIDISCIPLINARY APPROACH. 1973. 119p. (Committee print serial Z).
Contains reports by NASA, National Science Foundation, National Bureau of Standards, and the Congressional Research Service. Designed to reveal the extent of need, who is doing the research and development, the level of effort, the obstacles, and the degree of reliance to be placed on solar energy. In spite of the determination that "there is unanimous agreement that the need for solar energy exists and will increase," both federal and industrial efforts toward solar energy research are presently low-level.

25. U.S. Congress. 92d. Comm. on Science and Astronautics. Subcomm. on Science, Research, and Development.
BRIEFINGS BEFORE THE TASK FORCE ON ENERGY. 3 vols. 1971+1972. 111+179+199p. (Committee prints).
Sudocs nos.: v.1: Y4.Sci2:92-1/M
v.2: Y4.Sci2:92-2/Q
v.3: Y4.Sci2:92-2/U
Consists of "statements prepared for a series of briefings before the Subcommittee's Task Force on Energy," which "represents a valuable source of information concerning the current status of research and development activities in the field of energy." Includes biographical sketches of all individuals testifying. Many graphic and tabular presentations.

26. U.S. Congress. 92d. House. Comm. on Science and Astronautics. Subcomm. on Science, Research, and Development.
ENERGY RESEARCH AND DEVELOPMENT; hearings. 1972. 724p.
Sudocs no. Y4.Sci2:92-2/24. (depository item).
Objectives of the hearings are "to evaluate where we are as a nation in energy R & D," and "put together a comprehensive national energy R & D policy." An extensive compilation of statements by an impressive list of individuals.

27. U.S. Congress. 92d. House. Comm. on Science and Astronautics. Subcomm. on Science, Research, and Development. Task Force on Energy.
ENERGY--THE ULTIMATE RESOURCE; study submitted . . . by the Environmental Policy Division, Congressional Research Service, Library of Congress. 1971. 212p. (Committee print serial J).
Sudocs no. Y4.Sci2:92-1/J.
"Attempts to describe the history and present status of world energy production and consumption, and show where research and development fit into the overall energy policy issue." In this "desk reference book . . . the data have been organized under broad topics," e.g., energy use and GNP, comparison of energy reserves, oil and gas, transportation of energy, future energy demand. A key work.

28. U.S. Congress. 92d. House. Comm. on Science and Astronautics. Subcomm. on Science, Research, and Development. Task Force on Energy.
AN INVENTORY OF ENERGY RESEARCH; prepared by Oak Ridge National Laboratory with the support of the National Science Foundation. 1972. 2 vols. 1724p. (Committee print).
Sudocs no. Y4.Sci2:92-2/R/v.1+2.
A "survey of current research on energy problems" which seeks to provide "an overview of the research being conducted on most aspects of energy production and use." Vol. 1 lists approximately 4400 research projects by title under one of 14 categories of energy sources, each of which is subdivided into 8 stages for each source. Vol. 2 contains simple indexes on research institutes, sponsors, and principal investigators, as well as a permuted title index (KWIC index). Very comprehensive.

29. U.S. Congress. 92d. House. Select Comm. on Small Business. Subcomm. on Special Small Business Problems.
CONCENTRATION BY COMPETING RAW FUEL INDUSTRIES IN THE ENERGY MARKET AND ITS IMPACT ON SMALL BUSINESS; hearings . . . pursuant to H.Res.5 and 19, resolutions creating a select committee to conduct studies and investigations of the problems of small business. 1971+1972. 4 vols. 1142+229+165+57p.
Sudocs no. Y4.Sm1:En2/2/v.1-4. (depository item).
v.2: Tennessee Valley Area
v.3: Natural Gas Survey and Synthetic Fuel Development
v.4: The Impact of the Energy Crisis on Iowa.
Voluminous testimony and reportage. One noteworthy reprint is the appendix to v.2, "Special Project, the Energy Crisis: the Need for Antitrust Action and Federal Regulation," from the February 1972 Vanderbilt Law Review.

30. U.S. Congress. 91st. House. Select Comm. on Small Business. Subcomm. on Special Small Business Problems.
THE IMPACT OF THE ENERGY AND FUEL CRISIS ON SMALL BUSINESS; hearings . . . pursuant to H.Res.66, a resolution creating a select committee to conduct studies and investigations of the problems of small business. 1970. 522p.
Sudocs no. Y4.Sm1:En2. (depository item).
A variety of statements and reports. Includes the National Petroleum Council's 1970 reprint, "Short-Term Fuel Oil Outlook."

31. U.S. Congress. 91st. Joint Comm. on Atomic Energy.
ENVIRONMENTAL EFFECTS OF PRODUCING ELECTRIC POWER; hearings. 1969 and 1970. Part 1, Part 2 (vols.1+2), 2708p.
Sudocs no. Y4.At7/2:E12/3/pt.1, pt.2(vols.1+2). (depository item). $4.50+3.25+3.50.
A massive compilation of statements, notices, reports, documents, articles, lists, tables, charts, graphs, etc., on the problem. Excellent, extensive indexing for both parts. A most valuable source.

32. U.S. Congress. 92d. Joint Comm. on Atomic Energy.
NUCLEAR POWER AND RELATED ENERGY PROBLEMS--1968 THROUGH 1970. 1971. 1103p. (Joint committee print). $4.50.
Reprints the report by Philip Sporn, a leader and innovator in the electric power industry, entitled "Developments in Nuclear Power Economics 1968-1969." Includes a number of solicited comments on the Sporn report, Sporn's 1970 reply, and a copious appendix which compiles "the more basic documents which have been and are now being used in the formulation and guidance of the civilian nuclear power program." An overwhelming work.

33. U.S. Congress. 91st. Joint Comm. on Atomic Energy.
SELECTED MATERIALS ON ENVIRONMENTAL EFFECTS OF PRODUCING ELECTRIC POWER. 1969. 553p. (Joint committee print).
Sudocs no. Y4.At7/2:E12/2. $2.50.
23 background documents, including excerpts from the Committee's hearings, AEC reports, studies by other U.S. agencies, and remarks by experts in the field. A mine of information, especially useful due to the brief index and bibliographies.

34. U.S. Congress. 92d. Joint Comm. on Defense Production.
DEFENSE PRODUCTION ACT PROGRESS REPORT--NO. 5; hearing . . . on potential shortages of ores, metals, and minerals, fuels and energy resources, estimated future production and consumption, recycling of metals, dependence on foreign sources, recommendations for meeting demand, and related matters. 2 vols. 1971. 496p.
Sudocs no. Y4.D36:P94/no.50/v.1+2. (depository item).
The Defense Production Act, passed in 1950, "provided incentives for the expansion of productive capacity and supply. . . . In the early 1950's an evaluation of the Nation's resources was being made by the Paley Commission. An evaluation was made of the probable demand for major minerals in the 1970's. The 1970's have arrived, and the Dept. of the Interior is now attempting to make an assessment of the raw material requirements of the United States for the future, extending to the year 2000. . . The Joint Committee on Defense Production is interested in these forecasts . . . and in the kinds of action which will be required to provide adequate supplies of raw materials."

35. U.S. Congress. 91st. Joint Economic Comm.
THE ECONOMY, ENERGY, AND THE ENVIRONMENT; a background study prepared . . . by the Environmental Policy Division, Legislative Reference Service, Library of Congress. 1970. 131p. (Joint committee print).
Sudocs no. Y4.Ec7:Ec7/24. 55¢.
"Surveys the existing literature relating to various technical aspects of electric power production, with primary emphasis on the supply of the various fuels used in the production of electricity and on the environmental consequences of energy conversion." Provides a brief overview of the situation, followed by a systematic and comprehensive look at specific aspects. Many pertinent tables. Bibliographies. Excellent.

36. U.S. Congress. 92d. Senate. Comm. on Commerce.
BACKGROUND REPORT ON POWERPLANT SITING. 1972. 78p. (Committee print).
Sudocs no. Y4.C73/2:P87.
See also the Committee's hearings on powerplant siting (below).

37. U.S. Congress. 92d. Senate. Comm. on Commerce.
ENERGY RESEARCH AND DEVELOPMENTS; hearings . . . on Amend. 364 to S. 1684. 1972. 375p. (Serial no. 92-62).
Sudocs no. Y4.C73/2:92-62A. (depository item).
Discussion of amendment to Power Plant Siting Act. Includes reprint of Council on Economic Priorities May-June 1972 report, "The Price of Power: Electric Utilities and the Environment."

38. U.S. Congress. 92d. Senate. Comm. on Commerce.
POWERPLANT SITING; hearings . . . on S. 1684, to assure protection of environmental values while facilitating construction of needed electric power supply facilities, and for other purposes; S. 1915, to strengthen federal-state cooperation to assure protection of environmental values while facilitating construction of needed electric power supply facilities, and for other purposes; S. 3631, to promote commerce and assure protection of environmental values while facilitating construction of needed electric power supply facilities, and for other purposes. 1972. 1026p. (Serial 92-92).
Sudocs no. Y4.C73/2:92-92. (depository item).
Discussion of powerplant siting in view of environmental concerns. Reprints the U.S. Office of Science and Technology's "Electric Power and the Environment."

39. U.S. Congress. 91st. Senate. Comm. on Commerce. Subcomm. on Energy, Natural Resources, and the Environment.
FEDERAL POWER COMMISSION OVERSIGHT; hearing . . . on a report covering the principal policy questions now facing the Federal Power Commission. 1970. 774p. (Serial 91-58).
Sudocs no. Y4.C73/2:91-58. (depository item).
Especially informative are 18 appendixes, covering projections of power industry growth, summary of Federal Power Act, siting and design of power facilities, environmental considerations, etc.

40. U.S. Congress. 91st. Senate. Comm. on Government Operations. Subcomm. on Intergovernmental Relations.
INTERGOVERNMENTAL COORDINATION OF POWER DEVELOPMENT AND ENVIRONMENTAL PROTECTION ACT; hearings . . . on S. 2752, to promote intergovernmental cooperation in the control of site selection and construction of bulk power facilities for environmental and coordination purposes. Part 1, 1970, 446p. Part 2, 1971, 882p.
Sudocs no. Y4.G74/6:In8/10/pts.1+2. (depository item). $1.75+2.00.
Contains a variety of graphic materials on such topics as stack emissions, power plant efficiency, etc. Statements are from individuals of many backgrounds. Reprints a number of news articles.

41. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
ADVANCED POWER CYCLES; hearing . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on new technologies for the environmentally acceptable generation of electricity employing advance power cycles for the combustion or gasification of coal. 1972. 275p. (Serial 92-21).
Sudocs no. Y4.In8/13:92-21. (depository item).
Discusses the interrelationship of energy, the environment, and the economy, while focusing on a possible solution to the energy crisis. Is particularly sensitive to the problem of air pollution as related to energy generation. Numerous tabular and graphic presentations.

42. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A BIBLIOGRAPHY OF CONGRESSIONAL PUBLICATIONS ON ENERGY FROM THE 89TH CONGRESS TO JULY 1, 1971; prepared . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1971. 45p. (Committee print 92-6).
Sudocs no. In8/13:92-6.
A highly useful reference for items covered in the Monthly Catalog of U.S. Government Publications, Jan. 1, 1965 through July 1, 1971; plus the Congressional Research Service data base for July 1, 1969 to July 1, 1971. All entries are subject-indexed, a valuable feature.

43. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A BIBLIOGRAPHY OF NON-TECHNICAL LITERATURE ON ENERGY; prepared . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1971. 99p. (Committee print 92-7).
Sudocs no. Y4.In8/13:92-7.
An excellent bibliography, prepared through use of the Congressional Research Service data base covering July 1, 1969 through July 1, 1971. Provides a subject index to a wide spectrum of periodicals, journals, and documents, with brief annotations for each.

44. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
CALVERT CLIFFS COURT DECISION; hearing . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on environmental constraints and the generation of nuclear electric power; the aftermath of the court decision on Calvert Cliffs. 2 parts. 1971. 844p. (Serial 92-14).
Sudocs no. Y4.In8/13:92-14/pt.1+2. (depository item).
Seeks "to explore the short- and long-term implications of the decision of the U.S. Court of Appeals in Calvert Cliffs Coordinating Committee et al. v. Atomic Energy Commission, which represents a major interpretation of congressional intent regarding the National Environmental Policy Act of 1969. The Procedures and ground rules for the licensing of nuclear powerplants have been significantly affected, and the implications for other Federal licensing programs are yet to be determined." Includes text of the decision, and much substantiating documentation.

45. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. CONSERVATION OF ENERGY. 1972. 114p. (Committee print 92-18). Sudocs no. Y4.In8/13:92-18. 50¢.

Discusses (1) controlling demand, (2) increasing the efficiency of energy development and use, (3) systems approaches to energy conservation, (4) the environmental factor, and (5) new technology and energy sources.

46. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. CONSIDERATIONS IN THE FORMULATION OF NATIONAL ENERGY POLICY. 1971. 115p. (Committee print 92-4). Sudocs no. Y4.In8/13:92-4.

A general overview. Includes consideration to economic, social, and environmental issues, as well as trade and foreign policy.

47. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. EFFECT OF CALVERT CLIFFS AND OTHER COURT DECISIONS UPON NUCLEAR POWER IN THE UNITED STATES. 1972. 57p. (Committee print 92-28).

"The implications of the Calvert Cliffs decision is of particular importance for nuclear power development in the United States." This print "presents a discussion of policy issues inherent in Calvert Cliffs and other decisions affecting energy policy."

48. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. ENERGY RESEARCH POLICY ALTERNATIVES; hearings . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on existing federal energy research and development policies and future technological options. 1972. 814p.

Sudocs no. Y4.In8/13:92-30. (depository item). $5.25.

Notes that "energy research is currently being funded by some 35 agencies of the Federal Government" while "far too little attention . . . has been paid to long-term priorities and to coordinating the fragmented agency program efforts into a rational and comprehensive Federal energy research program." Includes dozens of National Science Foundation energy project summaries, as well as an abundance of statements, reprinted articles and documents, among which is "The Man Who Invented the Chicken Car," pp.502-4, a Rolling Stone reprint.

49. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. GEOTHERMAL ENERGY RESOURCES AND RESEARCH; hearings . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on the role of geothermal energy resources in our nation's future energy economy. 1972. 465p. (Serial 92-31).

Sudocs no. Y4.In8/13:92-31. (depository item). $2.75.

Examines the potential of U.S. geothermal resources as a new, clean energy source. In addition to several personal statements, there is a reprint of U.S. Geological Survey Circular 647, "Classification of Public Lands Valuable for Geothermal Steam and Associated Geothermal Resources," and a table listing locations of thermal springs and wells on a state-by-state basis, plus Italy and New Zealand. Bibliographies. Interesting graphic presentations. Suggests nine conclusions and recommendations.

50. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
GOALS AND OBJECTIVES OF FEDERAL AGENCIES IN FUELS AND ENERGY; prepared . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1971. 131p. (Committee print 92-9).
Sudocs no. Y4.In8/13:92-9.
In order to identify federal agencies involved in energy policy and to obtain a statement of their goals, a questionnaire was sent to 96 agencies. 30 reported that they have some degree of responsibility, and excerpts of their responses are included. Also reprints text of Interior Dept. 1972 Program Memorandum on "Natural Resources and Environmental Needs, Objectives and Goals."

51. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
NATIONAL FUELS AND ENERGY POLICY; hearings on S.Res. 45, to authorize a Study of National Fuels and Energy Policy. 1971. 129p.
Sudocs no. Y4.In8/13:F95/8. (depository item).
A variety of statements.

52. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
NATIONAL GOALS SYMPOSIUM; hearings . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study, on energy policy and national goals. 2 parts. 1971. 821p. (Serial 92-11).
Sudocs no. Y4.In8/13:92-11/pt.1+2. (depository item).
Notes that "energy is the tool and energy policy is the method of directing the useful employment of the tool. Energy policy must, therefore, be considered against a larger background than simply the problem of meeting society's growing demand for energy supply. Energy policy sould be designed to promote and obtain a broad range of generally agreed upon nation goals, many of which are only indirectly related to existing or proposed energy systems."

53. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
NATURAL GAS POLICY ISSUES; hearings . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on review of public policy issues related to the discovery, production, distribution, and use of natural gas and natural gas substitutes. 1972. 2 parts. 1090p. (Serial 92-22).
Sudocs no. Y4.In8/13:92-22/pts.1+2. (depository item). $2.50+2.50.
These hearings were "not planned to focus on specific legislation pending . . .or to oversee specific agency programs." Instead, the purpose was "to examine the whole range of policy issues related to natural gas and the mutual connections among these issues." There is an interesting list of questions related to natural gas policy issues, pp.2-4, plus pertinent graphic and tabular presentations.

54. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
THE PRESIDENT'S ENERGY MESSAGE; hearing . . . pursuant to S.Res. 45, a National Fuels and Energy Study. 1971. 271p. (Serial 92-1).
Sudocs no. Y4.In8/13:92-1. (depository item).
The first of a series of hearings by this congressional committee on U.S. fuels and energy policies. Includes both text and summary of President Nixon's Energy Message of June 4, 1971 (text also printed as H.Doc. 92-118). Includes text of several Office of Emergency Preparedness reports, e.g., "Survey of Electric Power Problems." Many good graphic presentations.

55. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A REVIEW OF ENERGY ISSUES AND THE 91ST CONGRESS. 1971. 38p. (Committee print).
Sudocs no. Y4.In8/13:En2.
Reports legislation enacted, and outlines policy issues in the energy field. All statements quite brief.

56. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A REVIEW OF ENERGY POLICY ACTIVITIES OF THE 92D CONGRESS, FIRST SESSION; prepared . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1972. 180p. (Committee print 92-17).
Sudoes no. Y4.In8/13:92-17.
Suggests six major causes of the energy crisis, viz., growth in population and per capita consumption, development of environmental quality goals, natural gas shortage, oil imports, coal availability, and electric power generation. Reports on legislative actions and committee hearings. Provides synopses of selected energy and fuels reports, and states emerging issues. Appendices include texts of selected documents. Excellent.

57. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A REVIEW OF THE ENERGY RESOURCES OF THE PUBLIC LANDS; based on studies sponsored by the Public Land Law Review Commission. 1971. 160p. (Committee print 92-5).
Sudocs no. Y4.In8/13:92-5.
Condensation of PLLRC reports on U.S. energy resources, especially from the six-volume report "Energy Fuel Mineral Resources of the Public Lands."

58. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
SELECTED READINGS ON ECONOMIC GROWTH. 2 parts. 1971. 678p. (Committee print 92-3).
Sudocs no. Y4.In8/13:92-3/pt.1+2.
Topics cover population, natural resources, environmental quality and energy. Part 2, section V, pp. 585-678, deals with energy needs.

59. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
SUMMARY REPORT OF THE CORNELL WORKSHOP ON ENERGY AND THE ENVIRONMENT, FEB. 22-24, 1972; sponsored by the National Science Foundation Research Applied to National Needs (RANN) Program . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1972. 177p. (Committee print 92-23).
Sudocs no. Y4.In8/13:92-23. 70¢.
An overview of energy and the environment is followed by four parts: (1) social, environmental, and health costs, (2) technological options, (3) growth rate of energy demand, and (4) institutional mechanisms. Concludes that "the important immediate objective to be achieved . . . is to equip the federal government with a basic set of institutions which can function effectively under dynamic conditions in response to the preferences of a full range of interests in our society." An excellent report.

60. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
A SUPPLEMENTAL BIBLIOGRAPH OF PUBLICATIONS ON ENERGY. 1972. 26p. (Committee print 92-29).
Compiled by Congressional Research Service. Updates previous Committee bibliographies.

61. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs.
SURVEY OF ENERGY CONSUMPTION PROJECTIONS; prepared . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study. 1972. 70p. (Committee print 92-19).
Sudocs no. Y4.In8/13:92-19.
This is a "compendium of existing projections for future U.S. energy consumption. . . . its value lies in presenting a wide range of opinions by reputable and well-known organizations and individuals. . . . it does not present answers but rather provides basic information which is needed for rational choice among alternative policies." Contains many useful tables, e.g., total energy consumption, total energy annual growth rates, U.S. natural gas consumption, per capita gross national product, etc.
See also U.S. Congress. 92d. House. Comm. on Interior and Insular Affairs. ENERGY "DEMAND"STUDIES: AN ANALYSIS AND APPRAISAL.

62. U.S. Congress. 91st. Senate. Comm. on Interior and Insular Affairs. Subcomm. on Minerals, Materials, and Fuels.
FUELS AND ENERGY; hearings . . . on S. 4092, a bill to establish a commission on fuels and energy to recommend programs and policies intended to insure that the United States requirements for low-cost energy will be met, and to reconcile environmental quality requirements with future energy needs. 1970. 256p.
Sudocs no. Y4.In8/13:F95/7. (depository item).
Numerous statements, communications, and reprinted articles and addresses. A good source for a variety of opinions on the energy issue.

63. U.S. Congress. 91st. Senate. Comm. on Interior and Insular Affairs. Subcomm. on Minerals, Materials, and Fuels.
NATURAL GAS SUPPLY STUDY; hearings . . . on supplies of natural gas, 1969. 1970. 265p.
Sudocs no. Y4.In8/13:G21. (depository item).
Hearings were held as a result of "an increasing number of warnings . . . that our country is facing a serious shortage of natural gas supplies." In addition to numerous statements and communications, several pertinent articles and addresses are reprinted.

64. U.S. Congress. 92d. Senate. Comm. on Interior and Insular Affairs. Subcomm. on Minerals, Materials, and Fuels.
REVIEW OF THE DEVELOPMENTS IN COAL GASIFICATION; hearing . . . pursuant to S.Res. 45, a National Fuels and Energy Policy Study . . . on S. 1846, a bill to establish a coal gasification development program. 1971. 122p. (Serial 92-15).
Sudocs no. Y4.In8/13:92-15. (depository item).
Hearing on a bill which would "establish a policy of developing the technology for producing substitutes for natural gas from coal through a jointly-funded and managed government-industry program."

65. U.S. Congress. 91st. Senate. Comm. on the Judiciary. Subcomm. on Administrative Practices and Procedures.
ELECTRIC POWER RELIABILITY; hearings . . . on federal procedures relating to adequacy and reliability of electric power. 1970. 318p.
Sudocs no. Y4.J89/2:E2/6. (depository item).
Focuses on two general areas, "what is the present practice for making decisions in connection with power shortages?" and "what changes should be made to account fully for and protect the public interest?" A variety of statements and reports, substantiated by graphic and tabular presentations.

66. U.S. Congress. 91st. Senate. Comm. on the Judiciary. Subcomm. on Antitrust and Monopoly.
COMPETITIVE ASPECTS OF THE ENERGY INDUSTRY; hearings . . . pursuant to S.Res.334. 2 parts. 1970+1971. 376+905p.
Sudocs no. Y4.J89/2:En2/pt.1+2. (depository item).
Focuses on the questions "How much is there? How is it working? Could it work better?" Problems noted are government involvement, fragmental regulation, antitrust agencies to protect competition, and environmental protection. Seeks to "determine that none of the present or predicted shortage is caused by manipulations aimed at raising prices." Of special interest is the report, "Competition in the Energy Markets: an Economic Analysis," by National Economic Research Associates, Inc. in part 1.

67. U.S. Congress. 91st. Senate. Comm. on Public Works.
PROBLEMS AND ISSUES OF A NATIONAL MATERIALS POLICY; papers delivered at an Engineering Foundation Research Conference on National Materials Policy, July 1970. 1970. 272p. (Committee print).
Sudocs no. Y4.P96/10:N21m. $1.25.
"The conference dealt with such broad questions as the formulation of national goals for materials management, relations of materials to the environment, problems of the impacts of materials decisions, and organizations whose contributions to policymaking in materials needed to be strengthened and systematized." Part IV, pp. 121-170, is concerned specifically with "Energy, Fuels, and Environment." An extremely valuable report.

68. U.S. Congress. 91st. Senate. Comm. on Public Works.
SOME ENVIRONMENTAL IMPLICATIONS OF NATIONAL FUELS POLICIES. 1970. 70p. (Committee Print).
Sudocs no. Y4.P96/10:N21f. 30¢.
"An objective analysis of the factors relevant to the development of fuels and energy policies compatible with environmental quality requirements." Focuses upon two general considerations, viz., "that in the conversion of fuel to energy, all processes result in some types of effluents being released to the environment," and "that fuelt supplies are all to some extent limited." Appendix B contains an annotated list of federal programs related to the environment. An excellent brief report.

69. U.S. Council on Environmental Quality.
THE PRESIDENT'S 1971 ENVIRONMENTAL PROGRAM. 1971. 306p.
Sudocs no. PrEx14.2:En8. (depository item). $2.25.
"Power plant siting," pp. 239-259, provides a detailed review of President Nixon's legislative proposals.

70. U.S. Dept. of the Interior.
OUR ENVIRONMENT AND OUR NATIONAL RESOURCES . . . INDIVISIBLY ONE. 1972. 96p. (Conservation yearbook no. 8).
Sudocs no. I1.95:8. (depository item). $2.00.
Chapter 3, pp. 30-55, "Energy for Living," discusses some key Interior Dept. programs such as leasing on the Outer Continental Shelf, oil shale, geothermal energy, coal gasification, the Trans-Alaska Pipeline, and water development in the western states. Notable for color photography.

71. U.S. Dept. of the Interior.
UNITED STATES ENERGY; A SUMMARY REVIEW. 1972. 42p.
Sudocs no. I1.2:En2. (depository item). 50¢.
An excellent summary, with graphic and tabular presentations. Glossary. Bibliography.

72. U.S. Environmental Protection Agency. Office of Air Programs.
AIR POLLUTION ASPECTS OF EMISSION SOURCES: ELECTRIC POWER PRODUCTION--A BIBLIOGRAPHY WITH ABSTRACTS. 1971. 312p. (Publication no. AP-96).
Sudocs no. EP4.9:96. (depository item). $2.25.
A compilation of approximately 1040 abstracts selectively screened from the files of the Air Pollution Technical Information Center (APTIC). Includes many citations to works of more general relevance to the energy situation. Subject and author indexes.

73. U.S. Environmental Protection Agency. Water Quality Office.
THERMOELECTRIC GENERATORS POWERED BY WASTE FROM ELECTRIC POWER PLANTS. 1970. 27p. (Water Pollution Control Research series).
Sudocs no. EP2.10:16130-10/70. (depository item). 45¢.
"The feasibility of recovering electricity from the waste heat of electric power plants was assessed. Sources considered were: stack flue gas, gas-turbine exhaust, and condensing steam . . . The high material cost, however, precludes all such applications today."

74. U.S. Federal Power Commission.
ANNUAL REPORT. 1921-
Sudocs no. FP1.1: (depository item).
Most recent: 1971, 101p. 1972. FP1.1:971. $1.25.
Annual summary of the Commission's activities. Much detailed statistical data. Graphic material.

75. U.S. Federal Power Commission.
ELECTRIC POWER STATISTICS. monthly.
Sudocs no. FP1.27: (depository item). $5.50 per year.
Presents monthly summaries of statistical data taken from reports filed by electric utilities with the FPC. Includes production of energy, capacity of plants, fuel consumption of power plants, electric utility system loads, sales of electric energy, and financial statistics of private utilities.

76. U.S. Federal Power Commission.
THE GAS SUPPLIES OF INTERSTATE NATURAL GAS PIPELINE COMPANIES. 1963- . annual.
Sudocs no. FP1.21: (depository item).
Most recent: 1971, 132p. 1972. FP1.21:225.
Provides "a statistical summary of the end of the year total reserves and deliverability and pertinent comparisons with information for the preceding eight years." Includes statistics on trends, imports and exports, productive capacity. Primarily tabular and graphic in nature.

77. U.S. Federal Power Commission.
HYDROELECTRIC PLANT CONSTRUCTION COST AND ANNUAL PRODUCTION EXPENSES; ANNUAL SUPPLEMENT. 1957- .
Sudocs no. FP1.21: (depository item).
Most recent: 13th, 1969, 113p. 1971. FP1.21:211. $1.25.
Presents detailed data on plant investment, annual production expenses, and related information for selected major hydroelectric plants in the U.S. and Puerto Rico, which account for 93% of the total net generation for all plants. Excludes plants with capacity less than 10 MW. Indexes plants by state and by ownership groupings.

78. U.S. Federal Power Commission.
THE 1970 NATIONAL POWER SURVEY. 1971. 4 parts. 466+380+451+470p.
Sudocs no. FP1.2:P87/970/pts.1-4. (depository item). $4.25+6.00+5.25+4.00.
"Projects electric load growth over the next twenty years, and discusses changing power technology, growing concerns for all developments, including use of resources and various impacts on air, water and land, increasing problems in meeting schedules for needed new power facilities, power plant fuel supply problems, and the probable effect fo these on the cost of power . . . Intended to serve as a general long-range guide rather than a directive or firm plan. . . .Illustrates possible patterns of efficient development." Many graphic and tabular presentations. A major study.

79. U.S. Federal Power Commission.
SALES BY PRODUCERS OF NATURAL GAS TO INTERSTATE PIPELINE COMPANIES. 1961- . annual.
Sudocs no. FP1.21: (depository item).
Most recent: 1970, 501p. 1972. FP1.21:217. $3.75.
Gives sales by size groups, by states, and by pricing areas, sales to individual purchasers, and pipeline companies' purchases from producers and their own production.

80. U.S. Federal Power Commission.
STATISTICS OF INTERSTATE NATURAL GAS PIPELINE COMPANIES. annual.
Sudocs no. FP1.21: (depository item).
Most recent: 1971, 172p. 1972. FP1.21:223. $2.25.
Compiled from annual reports submitted by class A and B companies, presenting financial and operating statistics.

81. U.S. Federal Power Commission.
STATISTICS OF PRIVATELY OWNED ELECTRIC UTILITIES IN THE UNITED STATES. 1937- . annual.
Sudocs no. FP1.21: (depository item).
Most recent: 1970, 456p. 1971. FP1.21:214. $3.25.
Comprehensive financial and operating information on all large U.S. installations, taken from annual reports submitted to the FPC.

82. U.S. Federal Power Commission.
STATISTICS OF PUBLICLY OWNED ELECTRIC UTILITIES IN THE UNITED STATES. 1946- . annual.
Sudocs no. FP1.21: (depository item).
Most recent: 1970, 195p. 1972. FP1.21:219. $1.50.
Financial and operating information and statistics.

83. U.S. Federal Power Commission.
STEAM-ELECTRIC PLANT CONSTRUCTION COST AND ANNUAL PRODUCTION EXPENSES; ANNUAL SUPPLEMENT. 1948- .
Sudocs no. FP1.21: (depository item).
Most recent: 23d, 1970, 171p. 1972. FP1.21:222. $1.75.
Provides an update to the "continuous comprehensive published record of the operations of the more important steam-electric plants of the electric utility industry for the 33-year period, 1938-70. . . . Plants that produce both steam-electric power and process steam for industrial purposes are not included," nor are "new plants of less than 25 MW capacity."

84. U.S. Federal Power Commission.
WORLD POWER DATA. 1955- . annual.
Sudocs no. FP1.12: (depository item).
Most recent: 1969, 15p. 1972. FP1.12:41. 30¢.
Provides capacity of electric generating plants and production of electric energy for most countries of the world.

85. U.S. Federal Power Commission. Bureau of Natural Gas.
NATIONAL GAS SUPPLY AND DEMAND, 1971-1990. 1972. 166p. (Staff report no. 2).
Sudocs no. FP1.21:218. (depository item). $1.75.
A comprehensive report on future national gas supply and demand, intended to provide a "forecast of the availability of natural gas and supplemental supplies of gas for a 20-year period. . . . The projections and forecasts which are the components of the overall supply-demand balance of this report were constructed with the knowledge that prevision is not possible in such an undertaking." The goal is to "provide a reasonable approximation of future gas availability, based on present information."

86. U.S. Federal Trade Commission.
ECONOMIC REPORT: INTERFUEL SUBSTITUTABILITY IN ELECTRIC UTILITY SECTOR OF U.S. ECONOMY. 1972. 84p.
Sudocs no. FT1.2:E12/2. (depository item). 45¢.

87. U.S. Geological Survey.
ENERGY RESOURCES OF THE UNITED STATES. 1972. 27p. (USGS circular 650).
Sudocs no. I19.4/2:650. (depository item)
"Estimates are made of United States resources of coal, petroleum liquids, natural gas, uranium, geothermal energy, and oil from oil shale. . . . Resources, as used here, include all rocks and minerals . . . potentially usable by man, including currently known and recoverable reserves, undiscovered resources which are estimated geologically or mathematically and which would be recoverable if found, and energy sources (identified and undiscovered) whose exploitation will require more favorable economic or technologic conditions than those of the present."

88. U.S. Geological Survey.
SELECTED SOURCES OF INFORMATION ON UNITED STATES AND WORLD ENERGY RESOURCES: AN ANNOTATED BIBLIOGRAPHY. 1970. 21p. (USGS circular 641).
Sudocs no. I19.4/2:641. (depository item).
"A revision and an updating of an earlier bibliography on the same subject by Trumbull (1961). . . . The number of reports on energy resources has increased significantly, and many older reports have been updated or superseded. . . . Includes selected summary reports applicable primarily to the United States. . . . Includes data on resources of conventional and unconventional energy resources, the availability and future prospects of developing each source . . . production and use statistics, and the probable future course of energy development." A valuable reference work.

89. U.S. National Industrial Pollution Control Council.
THE ELECTRIC POWER INDUSTRY, sbu-council report. 1971. 20p.
Sudocs no. Y3.In2/8:2E 2/2. (depository item). 25¢.
A very brief but useful presentation, highlighting environmental considerations.

90. U.S. Office of Coal Research.
ANNUAL REPORT.
Sudocs no. I63.1: (depository item).
Most recent: 1973, 124p. 1973. I63.1:973. $2.35.
Account of OCR activities, which presently focus on "how to accelerate the ability to provide adequate supplies of clean energy at reasonable, without causing harm to the environment." Also interested in coal gasification and liquefaction research, and in the development of magnetohydrodynamics (MHD).

91. U.S. Office of Emergency Preparedness.
THE POTENTIAL FOR ENERGY CONSERVATION; A STAFF STUDY. 1972. 259p.
Sudocs no. PrEx4.2:En2. (depository item). $2.00.
"A deliberate decision was made to include a maximum of information concerning the study topic and of measures suitable for furthering energy conservation--leaving to possible further analyses such matters as the complete resolution of controversial data and the detailed exploration of suggested measures for conserving energy while attaining our desired quality of life." Includes bibliographies.

92. U.S. Office of Emergency Preparedness.
THE POTENTIAL FOR ENERGY CONSERVATION, SUBSTITUTION FOR SCARCE FUELS; A STAFF STUDY. 1973. 98p.
Sudocs no. PrEx4.2:En2/2. (depository item). $1.25.
A "study on the conservation of the scarce energy fuels (oil and gas) through substitution of more abundant domestic fuels (coal). . . . Consideration is not given to such alternative approaches as accelerated development of nuclear power, geothermal power, and solar power, which may ultimately substitute for part of the estimated future consumption of oil and gas." Glossary and bibliography.

93. U.S. Office of Science and Technology.
ELECTRIC POWER AND THE ENVIRONMENT. 1970. 71p.
Sudocs no. PrEx8.2:E2/2. (depository item). 75¢.
Reports on a "program for resolving the environmental problems that have emerged in the siting of steam electric power plants and extra high voltage transmission lines." The objective was "to assure that needed power facilities can be built in a timely fashion and with sufficient advance planning and pollution controls so as to minimize their impact on the surrounding environment." Proposes a four-part program.

94. U.S. Office of Science and Technology.
A REVIEW AND COMPARISON OF SELECTED UNITED STATES ENERGY FORECASTS. 1969. 79p.
Sudocs no. PrEx8.2:En2/2. (depository item). $1.00.
The two main purposes were "to collect and compare energy projections of a number of energy forecasts" and "to assess the methodology used by various forecasters." It was noted that "most of the forecasts studied provided only limited information about their methodology and practically none provided quantitative statements of the actual forecasting relationships." A useful study.

95. U.S. Office of Science and Technology.
PATTERNS OF ENERGY CONSUMPTION IN THE UNITED STATES. 1972. 220p.
Sudocs no. PrEx8.2:En2/3. (depository item). $2.25.
A study done for OST by Stanford Research Institute "to delineate the trends of energy consumption that have prevailed since 1960, in the important specific end uses in the residential, commercial, and industrial sectors of the U.S. economy. . . . The study deals only with energy consumption in the recent past; there are no projections of energy demand, nor are there observations as to the significance of the results to the future or to policy considerations. . . . Its purpose is to provide the most detailed information practicable on how the nation uses its energy." To this end, an excellent source. A plethora of tables and charts.

96. U.S. President. 37th. Richard M. Nixon.
ENERGY RESOURCES; the President's Message to the Congress, June 4, 1971. Weekly Compilation of Presidential Documents, vol.7, no.23 (June 7, 1971), pp.855-66.
Sudocs no. GS4.114:7/23. (depository item). 25¢.
"The first time that a message on energy of a comprehensive nature has been sent to the Congress by a President." Outlines the elements of Nixon's clean energy program, and discusses the nature of the current problem.

97. U.S. Secretary of the Interior.
FIRST ANNUAL REPORT . . . UNDER THE MINING AND MINERALS POLICY ACT OF 1970 (P.L. 91-631). 1972. 2 vols. 142+470p.
Sudocs no. I1.96/3:972/pt.1+2. (depository item). $1.25+3.25.
"A report on the state of domestic mining, minerals and mineral reclamation industries, including a statement of the trend in utilization and depletion of these resources, together with such recommendations for legislative programs as may be necessary to implement the policy of this Act." Consists of an Executive Summary and comprehensive reports in the first volume, plus an appendix (v.2) which "supports and amplifies in extensive detail the material covered in the preceding report." Much information germane to the energy situation.

* * *

FEDERAL CONTRACT R AND D STUDIES AVAILABLE THROUGH THE NATIONAL TECHNICAL INFORMATION SERVICE (NTIS)

98. CONSERVATION AND BETTER UTILIZATION OF ELECTRIC POWER BY MEANS OF THERMAL ENERGY STORAGE AND SOLAR-HEATING, by Manfred Altman, U. of Penn., Philadelphia, 1971. 263p.
NTIS no. PB-210 359. $6.75.
"A project to investigate the application of heat and coolness storage for comfort heating and air conditioning." The project's theme is to "employ thermal energy storage to accomplish several goals; the transferring of peak air conditioning loads to off-peak periods via the use of coolness storing materials, the use of solar energy and associated heat storage for residential heating purposes and the use of off-peak electrical energy and heat storage for heating purposes. . . . The common element of these conservation goals is the satisfying of climate conditioning needs, space heating and cooling, by creating a system to utilize the energy or power at the time when it is available, convert it into heat, or coolness, store it, and use it when needed."

99. ELECTRICAL POWER SUPPLY AND DEMAND FORECASTS FOR THE UNITED STATES THROUGH 2050. Columbia, Md. Hittman Assoc., 1972. 48p.
NTIS no. PB-209 266. $3.00.
"This report has been prepared to explore the historical growth of the demand for electrical power, the trends in selection of power plant fuels by geographic distribution, projections of power demand growth into the twenty-first century, and the potential impacts on national air quality resulting from the various alternatives of fuel usage."

100. ENERGY CONSUMPTION FOR TRANSPORTATION IN THE U.S. Oak Ridge, Tenn., ORNL, 1972. 34p.
NTIS no. ORNL-NSF-EP-15. $3.00.
"Historical, present, and possible future patterns of energy consumption in the transportation sector are examined for inter-city freight and passenger traffic and for urban passenger traffic. . . . The energy implications of changes in the modal mixes for freight and passenger transport are explored using two hypothetical futures."

101. ENERGY RESEARCH NEEDS. Wash., D.C., Resources for the Future, 1971. 893p.
NTIS no. PB-207 516. $13.50.
Identifies "a large number of individual matters on which research is needed in order to gain improved understanding . . . and in order to devise policies to deal with the situation. The broad subjects are the forces that influence consumption, the future of domestic mineral fuel reserves, research and development possibilities in energy production and use, the environmental impacts of energy production and utilization activities, and the public policies which significantly affect energy industry operation."

102. ENERGY, RESOURCES AND THE ENVIRONMENT. McLean, Va., MITRE Corp., 1972. 30p.
NTIS no. PB-213 031. $3.00.
A "substantive summary of the eight Symposia sponsored by MITRE on the interrelationships of Energy, Resources and the Environment during the period July 1971 to July 1972."

103. THE GROWING DEMAND FOR ENERGY. Santa Monica, Calif., RAND Corp., 1972. 27p. (RAND Publication P-4759).
NTIS no. AD-742 382. $3.00.
A short course on electricity use and consumption forecasting.

104. STUDY OF THE FUTURE SUPPLY OF LOW SULFUR OIL FOR ELECTRICAL UTILITIES. Columbia, Md., Hittman Assoc., 1972. 76p.
NTIS no. PB-209 257. $4.50.
Study of "the factors influencing the supply and demand of low sulfur residual oil. . . . Data on U.S. and foreign production of residual oil were gathered including the availability of low sulfur fuel. . . . The potential supply of low sulfur fuels was predicted. . . . The supply and demand quantities for residual oil were compard for the 1970-1980 time period and conclusions were drawn as to what steps must be taken to satisfy the 1980 demand for low sulfur fuels."

105. STUDY OF THE FUTURE SUPPLY OF NATURAL GAS FOR ELECTRICAL UTILITIES. Columbia, Md., Hittman Assoc., 1972. 43p.
NTIS no. PB-209 285. $3.00.
"The availability of natural gas as a low sulfur fuel for electrical production was examined in light of historical usage and availability. The goal was to ascertain not only near term but extended demands. Projections were made out through the year 2000. . . . Most industry spokesmen are forecasting a gas shortage during the 1972 through 1975 time period. The bulk of the solutions will not be available until the latter 1970's."

106. A SURVEY OF FUEL AND ENERGY INFORMATION SOURCES, VOL. I. McLean, Va., MITRE Corp., 1970. 298p.
NTIS no. PB-197 386. $3.00.
"Identifies the 103 Federal, state and independent information source agencies and organizes them according to a set of management information descriptors developed by the study. . . . Also identifies 77 unpublished Federal fuel and energy related questionnaires which are circulated to 120,000 individual industrial corporations each year."

107. SURVEY OF NUCLEAR POWER SUPPLY PROSPECTS. Columbia, Md., Hittman Assoc., 1972. 88p.
NTIS no. PB-209 283. $3.00.
"A detailed review of the nuclear segment of the power industry and an evaluation of the ways in which nuclear power will impact on national air quality and emissions from fossil-fueled steam electric plants are discussed. . . . The forecast of future power supplied by nuclear reactors has been shown by optimization analysis to be strongly dependent upon the reactor types and their technological development."

108. THE U.S. ENERGY PROBLEM. Warrenton, Va., InterTechnology Corp., 1971. 2 vols.
v.1, Summary Volume, 83p. PB-207 517. $4.85.
v.2, Part A, Appendices A-G. 744p. PB-207 518. $12.50.
Part B, Appendices H-U. 685p. PB-207 519. $12.50.
NOTE: All three available as a set for $20.00.
"Summarizes the energy problem with pertinent information concerning the effects of the energy crisis on transportation, communication, production, housing and other aspects of the economy."

109. U.S. TRANSPORTATION; SOME ENERGY AND ENVIRONMENTAL CONSIDERATIONS. McLean, Va., MITRE Corp., 1972. 50p.
NTIS no. PB-213 034.
"The role of transportation in air pollution and consumption of energy, especially petroleum, is reviewed, with emphasis on the U.S. situation. Both technological and control measures for each problem area are discussed. . . . Transportation evolution over the next few decades is projected."